

Sustainable and Competitive Cocoa Systems in Africa

Regional Project

Systèmes de Cacaoculture Compétitifs et Durables en Afrique

Projet Régional

Purpose of the project

Facts

- Most African cocoa plantations are in a **phase of decline** of their productivity (**70% of world production**).
- Until recently, yields could be maintained by planting new cocoa plantations in new areas in forest zone => **deforestation**.
- But in West Africa, forest reserves are becoming scarce and less accessible **physically, legally** (land laws) and **politically** (international pressure).
- Cocoa cultivation is the main monetary **source** for millions of small farmers (**95% of world production comes from farms having less 5 ha**) and is still the main source for rural funds and rural development in producing countries.
- Cocoa still ensures a good **protection of environment** (against erosion, etc.), maintenance of biodiversity and land reconstitution.

Thus

Enabling cocoa producers (farmers and countries) implies a rapid transformation of development systems from **pioneer fronts** to **stabilised systems**, which are:

- Agronomic reproducible ;
- Economic lasting ;
- Allowing social improvements ;
- Environment-friendly.

Organisation

The Regional Project is sponsored by **French Cooperation**:

- Ministry of Foreign Affairs (Funds)
- CIRAD (Funds and Management)

It is implemented with support of **CORAF/WECARD** (West & Central African Council for Research and Development) and the **COPAL** (Cocoa Producers Alliance).

The coordination unit is:

- based at the College of Agriculture & Consumer Sciences, **University of Ghana**, Accra – Legon
- under the responsibility of the Cultural and Cooperation Service (SCAC) of the French Embassy in Accra.

Contact: scsproj@ug.edu.gh or www.sccs-project.net

The Project started in January 2002, for a period of **5 years**.

Objectives

Main

Find and adapt best possible **methods to renew cocoa plantations** in order to produce **sustainable and competitive cocoa systems** in West and Central Africa by undertaking studies and research operations **with farmers** in their fields.

Specific

- Production of knowledge** on agricultural dynamics used in farms (replanting, substitution and diversification) and on production zones to be improved;
- Setting up experimental networks** together with cocoa producers, in order to validate innovations enabling farmers to stay and intensify their cocoa plantation ;
- Increase researchers' awareness and train them** in methods using systemic and multidisciplinary approaches of cocoa production as well as participating methods;
- Develop and animate a regional partnership** being multi institutional favouring exchanges between countries and partners of various natures (research centres, Universities, NGO, agricultural organisations, extension services, etc.).

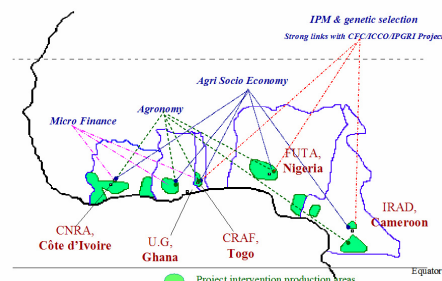
A few Data

- 20 research proposals were submitted to the project and 7 were accepted;
- 32 Research and agricultural extension Institutes, private or public, are concerned;
- More than 110 pilot farms are followed;
- More than 3000 farms were surveyed;
- 35 researchers and agents are working and trained to the research methodologies.

Trainings

- "Olympe" software for modelling the functioning of farms. (2 sessions: in 2003 & 2006).
- Participatory Research Methodologies. (1 session: in 2004).
- Cocoa Soil Diagnostic method. (2 sessions in 2005).
- Statistical analysis and modelling to analyse their own data. (2 sessions: 2003 & 2005).

SCCS Network

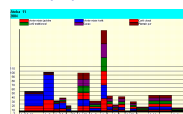


Countries Involved

- Côte d'Ivoire (39 % of world production) (source: FAO Data, 2005)
- Ghana (17 %)
- Nigeria (7 %)
- Cameroon (6 %)
- Togo (1 %)
- France (CIRAD Researchers based in Africa)

Samples of Software outputs

Olympe : Labour



Soil Diagnostic

Country	Area	Soil Type	Soil Depth	Soil pH	Soil N	Soil P	Soil K	Soil Ca	Soil Mg	Soil S	Soil C	Soil O	Soil H	Soil F	Soil B	Soil Cu	Soil Zn	Soil Mn	Soil Fe	Soil Co	Soil Ni	Soil Br	Soil I	Soil Se	Soil Mo	Soil V	Soil Cr	Soil Pb	Soil Cd	Soil Hg	Soil As	Soil Sb	Soil Sn	Soil Ba	Soil Sr	Soil Y	Soil La	Soil Ce	Soil Pr	Soil Nd	Soil Sm	Soil Eu	Soil Gd	Soil Tb	Soil Dy	Soil Ho	Soil Er	Soil Tm	Soil Yb	Soil Lu	Soil Sc	Soil Ti	Soil Zr	Soil Hf	Soil Ta	Soil Nb	Soil Mo	Soil Ru	Soil Rh	Soil Pd	Soil Ag	Soil Au	Soil Hg	Soil Pt	Soil Ir	Soil Os	Soil Fe	Soil Co	Soil Ni	Soil Cu	Soil Zn	Soil Ga	Soil Ge	Soil As	Soil Se	Soil Br	Soil Kr	Soil Xe	Soil Rn	Soil Fr	Soil Ra	Soil Ac	Soil Th	Soil Pa	Soil U	Soil Np	Soil Pu	Soil Am	Soil Cm	Soil Bk	Soil Cf	Soil Es	Soil Bm	Soil Fm	Soil Md	Soil No	Soil Nh	Soil Ta	Soil W	Soil Re	Soil Os	Soil Ir	Soil Pt	Soil Au	Soil Ag	Soil Cd	Soil Hg	Soil Pb	Soil Bi	Soil Po	Soil At	Soil Rn	Soil Fr	Soil Ra	Soil Ac	Soil Th	Soil Pa	Soil U	Soil Np	Soil Pu	Soil Am	Soil Cm	Soil Bk	Soil Cf	Soil Es	Soil Bm	Soil Fm	Soil Md	Soil No	Soil Nh	Soil Ta	Soil W	Soil Re	Soil Os	Soil Ir	Soil Pt	Soil Au	Soil Ag	Soil Cd	Soil Hg	Soil Pb	Soil Bi	Soil Po	Soil At	Soil Rn	Soil Fr	Soil Ra	Soil Ac	Soil Th	Soil Pa	Soil U	Soil Np	Soil Pu	Soil Am	Soil Cm	Soil Bk	Soil Cf	Soil Es	Soil Bm	Soil Fm	Soil Md	Soil No	Soil Nh	Soil Ta	Soil W	Soil Re	Soil Os	Soil Ir	Soil Pt	Soil Au	Soil Ag	Soil Cd	Soil Hg	Soil Pb	Soil Bi	Soil Po	Soil At	Soil Rn	Soil Fr	Soil Ra	Soil Ac	Soil Th	Soil Pa	Soil U	Soil Np	Soil Pu	Soil Am	Soil Cm	Soil Bk	Soil Cf	Soil Es	Soil Bm	Soil Fm	Soil Md	Soil No	Soil Nh	Soil Ta	Soil W	Soil Re	Soil Os	Soil Ir	Soil Pt	Soil Au	Soil Ag	Soil Cd	Soil Hg	Soil Pb	Soil Bi	Soil Po	Soil At	Soil Rn	Soil Fr	Soil Ra	Soil Ac	Soil Th	Soil Pa	Soil U	Soil Np	Soil Pu	Soil Am	Soil Cm	Soil Bk	Soil Cf	Soil Es	Soil Bm	Soil Fm	Soil Md	Soil No	Soil Nh	Soil Ta	Soil W	Soil Re	Soil Os	Soil Ir	Soil Pt	Soil Au	Soil Ag	Soil Cd	Soil Hg	Soil Pb	Soil Bi	Soil Po	Soil At	Soil Rn	Soil Fr	Soil Ra	Soil Ac	Soil Th	Soil Pa	Soil U	Soil Np	Soil 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